Form 3160-5 (June 1990) Do not use this	DEPARTMEN BUREAU OF SUNDRY NOTICES form for proposals to di	TED STATES VT OF THE INTERIOR LAND MANAGEMENT AND REPORTS ON W Will or to deepen or reent R PERMIT—" for such p	VELLS Ty to a different reservoir.	MMISSION CO 88240 D FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 S. Lease Designation and Serial No. NM 030482 6. If Indian, Allottee or Tribe Name
	SUBMIT	IN TRIPLICATE	≈≊€my2D	7. If Unit or CA, Agreement Designation INDIAN HILLS
i. Type of Well Oil Ga Well Well	f ell Other	· · · · · · · · · · · · · · · · · · ·	SEP 2 7 1993	8. Well Name and No.
2. Name of Operator			INDIAN HILLS UNIT #4	
Marathon Oil Company				9. API Well No.
				30-015-10738
P.O. BOX 552 Midland, Tx. 79702 (915) 682-1626 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1650' fsl & 1650' fwl				10. Field and Pool, or Exploratory Area INDIAN BASIN (U.PENN)
SEC. 28, T-2	11. County or Parish, State			
				EDDY, NEW MEXICO
12. CHECI	K APPROPRIATE BOX	s) TO INDICATE NATU	JRE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE O	TYPE OF SUBMISSION TYPE OF ACTION			
X Notic	æ of Intent	Abandonm		Change of Plans
Subse	equent Report	Recomplet Plugging E		New Construction
Final	Abandonment Notice	Casing Re Altering C Other		Water Shut-Off Conversion to Injection Dispose Water (Note: Report remaining a multiple completing on Wet

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* MARATHON PROPOSES TO DEEPEN THE ABOVE REFFERENCED WELL TO +/- 8000*. PLEASE SEE THE ATTACHED

RECOMPLETION PROCEDURE FOR SPECIFIC DETAILS. WORK IS EXPECTED TO BEGIN AS SOON AS POSSIBLE. THE DURATION OF THE RECOMPLETION IS ANTICIPATED TO BE 14 DAYS.

THE FOLLOWING PROCEDURE WAS DISCUSSED WITH AND APPROVED BY ADAM SALAMEH ON AUGUST 31, 1993.

		RECEIVED SEP 2 11 34 M '93 CAREA HILLING POE
14. I hereby certify that the foregoing is true and correct Signed 1. Automate BRD.W. PEARCE		<u>Dete</u> 8/31-93
(This space for Federal or State office use) (ORIG. SGD.) JOE G. LARA Conditions of approval, if any:	Tide PETROLEUM ENGINEER	9 <i> 23/93</i>

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



HISTORY: SPUDDED 11/16/65, COMPLETED 12/14/65. RAN 2-3/8' 4.7# J-55 TUBING W/PACKER TO 7351'. COMPLETED 2/69 (600 BBLS/MMCF) WELL OPENHOLE @ 7500' WELL TESTED 16 MMCF W/1100# FTP. TREATED W/500 GAL MUD ACID & 500 GAL DS-50 15% HCL ACID. MOC TOOK OVER AS OPERATOR 3/23/66. (8/27/70) KILLED WELL. RAN CICR TO 7466'. SQUEEZED OPENHOLE FROM 7473' TO 7500' W/350sx OF CEMENT. REVERSED OUT 90sx. DRILLED OUT CEMENT FROM 7466' TO 7483'. PERFORATED OPENHOLE FROM 7478'-82' W/2 SPF 5' (10 HOLES). SWABBED WELL IN AND TESTED (177 MCF, 80 BW & 2 BC) 10/30/70. SHUT-IN (6/211/76) TA'D WELL.

RECOMPLETION PROCEDURE

INDIAN HILLS UNIT NO. 4 Station 128 Indian Basin Field 1650' FSL & 1650' FWL Section 28, T-21-S, R-24-E Eddy County, New Mexico

Date: July 2, 1993

AFE No.:

Purpose: Recomplete to Upper Penn Oil Zone

Elevation: 3781' GL 3799' KB

TD: 7500' PBTD: 7483'

Surface Casing: 8-5/8", 24#, J-55 @ 1800' w/700 sx Used 1" pipe and 100 sx to bring cmt to surface.

Production Casing: 5-1/2", 17#/15.5#, J-55 @ 7473' Cemented w/300 sx. TOC 7500' by TS.

Drilling Mud Weight: 9.5 ppg cut brine, 34 VIS 20 cc W.L.

Estimated SBHP: 2000 psig

Safety Considerations: Hold daily safety meeting explaining the proposed procedure.

- 1. Inspect and clean location.
- 2. Install and test safety anchors to 22,500 lbs.
- 3. MIRU PU. Kill well w/2% KCl. Nipple down wellhead. Install 900 series BOPs with 2-7/8" pipe rams and test to 2500 psig.
- 4. Hook up to backside. Pressure test casing and packer to 500 psig. Release pressure. Unset packer and POOH.
- 5. RU reverse unit and power swivel. Pick up 4-3/4" bit, drill collars on 2-7/8", N-80 workstring. RU mud loggers. Drill out PBTD and deepen well 500' to approximately 8000'. RD mud loggers. POOH w/workstring, drillcollars and bit. RIH w/7" underreamer and drill collars. Underream open hole section from casing shoe to TD. Circulate hole clean. POOH. RD reverse unit.
- 6. RU logging company. Install full lubricator and test to 2500 psig. Run compensated Neutron and Density log. Run Dual Laterlog and Sonic logs in the open hole section. RD logging company.
- 7. . RIH w/700' of 4-1/2" flush joint casing. RIH w/liner to TD. Cement liner w/the attached service company recommendation.
- RIH w/2-7/8" workstring and tag PBTD. Pressure test casing and liner to 1000 psig. Spot 400 gals of 20% HCl acid across zone to be perforated. POOH.
- 9. RU logging company. Install full lubricator and test to 1500 psig. Run GR-RAL and GR-CBL-CCL from PBTD to top of liner. (Run repeat section with 0 psig on casing and main pass with 1000 psig on casing.) RD logging company.
- 10. PU Vann Gun assembly to perforate Upper Penn interval (a complete diagram of the assembly is attached) and Model K

firing head, pressure operated vent, 4-1/2" retrievable packer, and 6' RA sub. Test workstring and connections to 8000 psi while running in hole. (Workstring will be run dry.)

- 11. RU wireline company. Space out gun assembly and packer by using GR to correlate to the openhole logs. Locate RA sub and position packer accordingly. Do not run GR tool 10' below packer. POOH with wireline. RD wireline company.
- 12. Set packer and remove BOPs. Install X-mas tree. Install pop off valve set at 1500 psi and 2000 psi rupture disc on opposing sides of annulus.
- 13. RU stimulation company. Rig up surface equipment and test all lines. Pressure annulus to 1000 psi. Spot 1000 gals 20% HCl inside tubing. Pressure up w/N_2 to 7000 psig to open pressure operated vent. Once pressure operated vent open, continue to pressure up on tubing to fire Vann Gun set at 8000 psig.
- 14. As soon as pressure drop detected, put away acid with N_2 . Flush acid to bottom perf with N_2 .
- 15. Immediately open well and flowback to pit at maximum flow rate.
- 16. RU swab. Swab well to evaluate reservoir. Report results to Midland Operations.
- 17. Place well on submersible pump to gain an accurate test of production.
- xc: R. J. Folse
 - L. N. Hoover
 - C. T. Pearce
 - D. R. Petro
 - R. W. Tracy
 - R. W. Wardlow